Thornton Creek Water Quality Channel
30% Design Resolution Team

Workshop #1

Wednesday, December 7

Summary of Design Issues

Maintenance
- Ensure maintenance staff access
- Discourage public access where appropriate

Design Commission
- Mitigate ERA Care pinch points
- Highlight urban/natural interface
- Surface elements/landscape more developed
- Pedestrian experience more developed

Stakeholders
1. pedestrian access, specifically to include a stairwell from 100th
2. design features of the water quality channel, which include:
   - evaluate and explain the visual access to flowing water from pedestrian paths
   - what are the pros and cons of lining the low-flow channel with an impervious clay material?
   - discuss the loss of the 3 in-channel weirs and evaluate detention capacity has been lost
   - the level spreaders should perhaps be made of wood or other more natural materials, not concrete
   - suggest an outside peer review or value engineering process around costs
   - evaluate and explain how water temperatures in the water quality channel will be kept cool via shading

Design Team
- Emphasize pedestrian focal point at Lorig/ERA Care crossroads
- Evaluate opportunities to enhance bio-retention and views of water
- Examine structural earth wall constructability issues and opportunities
- Introduce variability in grading and channel walls
- Improve pedestrian experience/aesthetics
- Examine weirs and level spreader concepts
- Increase ponding area behind spreaders and reduce number of spreaders
- Better define Phase 1 & Phase 2
- Refine pathway materials (keep in mind need for smoothness for residents and means of deterring skateboards

- Refine Cascade design
- Examine urban/natural design approach
- Strengthen NE corner
- Evaluate 2 pedestrian access options
- Channel plant selection, including establishing roughness coefficient

Parameters

- Maintain vactor access
- Safety - Maintain safe staff access, while restricting/discouraging public access where appropriate
- Aim for gradual slopes 2:1 or 3:1
- Document water quality assumptions, methods and parameters
- Consider monitoring program approach

Information Needs

- Maintenance frequencies
- Channel maintenance design needs – surfaces, etc.

FYI

- Lorig and Era Care want to connect to 60" pipe in area of 2nd Diversion Structure